

NAME : _____

Math 43

Practice Exam

Due 8 April 2020 at 12 noon EDT

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This is a practice run for the process of working and exam and turning it in via our canvas page. Of course, this will not effect your grade, I expect everyone to participate. In particular, students who do not participate will not be excused if they have issues submitting an actual exam.

Problem	Points	Score
1	10	
2	10	
3	10	
Total	30	

1. (10) Find all the cube roots of -8 . Your answers should be in the form $a + ib$ with a and b real.

2. (10) As in problem #20 in section 1.4, show that

$$1 + \cos(\theta) + \cdots + \cos(n\theta) = \frac{1}{2} + \frac{\sin((n + \frac{1}{2})\theta)}{2 \sin(\frac{\theta}{2})}.$$

Since this is not a real exam, you can either submit your solution or refer the solutions provided. The main purpose here is for me to see if I can read what you've written and scanned. Ideally, your solution should add an extra page.

3. (10) Use this page to tell me something about yourself.

(a) Tell me about your mathematical background. For example, what courses have you taken at Dartmouth?

(b) Tell me how remote learning is going for you. How could we improve this course?

(c) Tell something about yourself that you feel comfortable sharing.